

ELP-24V2740Wh-6T

NATO LiFePO4 Rechargeable Battery



Description and Features

- NATO 6T LiFePO4 battery for armored and military vehicles and heavy duty applications
- 2.7 times more energy than in advanced Lead Acid batteries
- 3500 charging cycles and 10 year operational life
- Drop-in replacement of Lead-Acid batteries
- Smart battery with self-balancing and self-charging capability
- Serial and parallel interconnectivity with additional batteries supporting group operation
- Unique high current charge regulator that supports high power alternator feed and surges.

Charge Method (CCCV)

- Embedded charge controller
- Charge source: 30VDC power supply or 28V alternator
- Charging Voltage: 28.8VDC
- Recommended Charging current: 55A
- Fast Charging: 110A
- High current charge regulator that supports high power alternator feed, surges and differential battery SOC

BMS

- Protection: Under/over voltage; over-current; Short circuit; Reverse polarity; High/low temperature; Balance
- Communication: standard and configurable CANBus 2.0B; LED Fuel Gauge

Quality System

- ISO-9001:2008; AS-9100

Applicable Standards

- UN-38.3
- UL- 1642 / IEC 61233 (for cells)

MSDS and Disposal

- Check with manufacturer

Electrical	2.74 kWh
Capacity (typical)	108 Ah
Energy	2740 Wh
Voltage (min, nom, max)	20.0V, 25.6V, 28.8V
Max charge current	110A @ >120A will operate using charge current regulation
Max. discharge current	1,200A @ 500msec pulse, 1.67% duty cycle
Cold Crank Amps	1,100A @ -19°C , 14.4V with 11min pre-heating, 11.7 V w/o pre-heating
Life Cycle	3,500 cycles to 70% of initial capacity
Internal resistance	< 5.5mΩ @ 25°C

Mechanical	
Dimensions (L;W;H)	267mm;285mm;230mm
Weight	26 kg
Energy Density	105 Wh/kg; 157 Wh/L
Battery Housing	Reinforced polymer
Ingress Protection	IP67
Color	Coyote Brown

Environmental	
Charge temp.	-40°C to 55°C (internal heater)
Discharge temp.	-40°C to 71°C (internal heater)
Storage temp.	-40°C to 71°C (accelerated aging at temperatures > 30°C)
Transportation	Class 9

